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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/537,408	10/05/2005	Martin Zeller	70187	1697
26748 7	590 10/03/2006		EXAMINER	
SYNGENTA CROP PROTECTION , INC. PATENT AND TRADEMARK DEPARTMENT 410 SWING ROAD			PUTTLITZ, KARL J	
			ART UNIT	PAPER NUMBER
GREENSBOR	O, NC 27409		1621	
			DATE MAILED: 10/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.	Applicant(s)					
Office Action Summary		10/537,408		ZELLER, MARTIN				
		Examiner	Art Unit					
		Karl J. Puttlitz	1621					
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet w	vith the correspondence ad	ldress				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR F CHEVER IS LONGER, FROM THE MAILII sions of time may be available under the provisions of 37 of SIX (6) MONTHS from the mailing date of this communicat period for reply is specified above, the maximum statutory te to reply within the set or extended period for reply will, by eply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a ion. period will apply and will expire SIX (6) MO y statute, cause the application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this c BANDONED (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on	02 June 2005.						
•		This action is non-final.						
,—								
• —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) <u>1-15</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-15</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9) ☐ The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:  1.□ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the application from the International E	•	n received in this National	Stage				
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date.								
3) 🛭 Inforr	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>6/2/2005</u> .		Informal Patent Application					

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#### **DETAILED ACTION**

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## Specification

Applicant is required to amend the first sentence of the specification to include continuing data from the counterpart PCT application.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uno et al., Tetrahedron Letters (1985), 26(12), 1553-6 (Uno) in view of Gorelik et al., Zhurnal Organicheskoi Khimii (1992), 28(12), 2541-4 (Gorelik).

The instant claims are drawn to the preparation of compounds of the following formula:

(1),

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by reaction of a compound of formula II

$$\begin{array}{c}
R_1 \\
R_2
\end{array}$$

$$\begin{array}{c}
R_3 \\
(R_0)_n
\end{array}$$
(II),

with malonic acid dinitrile in an inert diluent in the presence of a palladium catalyst and a base, which process comprises using as the base a hydroxide of an alkali metal or a mixture of hydroxides of alkali metals. See definitions in the claims.

With regard to the above embodiments, Uno teaches the following reaction:

See attached Chemical Abstracts online citation [retrieved 26 September 2006]
Columbus, OH, USA

The examiner notes that such parameters such as solvents, amounts, temperature and pressure are well within the motivation of those of ordinary skill with an interest for optimizing the process.

The difference between the process set firth in Uno and the process covered in the rejected claims is that Uno fails to explicitly teach the presence of a hydroxide of an alkali metal or a mixture of hydroxides of alkali metals. However, Uno does teach the

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presence of bases such as NaH. In this regard, Gorelik teaches the following reaction of malononitrile addition using hydroxide bases:

With regard to the above reaction, those of ordinary skill would have been motivated to modify the disclosure of Uno to include the requitred hydroxides since Gorelik shows that these agents are effective for malononitrile addition reactions.

Therefore, the combination of Uno and Gorelik renders the rejected claims prima facie obvious since these references teach or suggest the elements of the rejected claims with a reasonable expectation of success.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl J. Puttlitz whose telephone number is (571) 272-0645. The examiner can normally be reached on Monday to Friday from 9 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page, can be reached at telephone number (571) 272-0602.

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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl J. Puttlitz Assistant Examiner